

Manual Drivetrains and Axles 9th Edition
Chapter 3
Multiple Choice Quiz A

Name: _____ Date: _____

1. What is the primary purpose of the pressure ring in a clutch system?
 - A. To provide a mounting place for springs
 - B. To engage the starter
 - C. To transmit torque from the flywheel
 - D. To dissipate heat and prevent warpage

2. How does a dual-mass flywheel typically fail, and what is the symptom?
 - A. Failure of the torsional load springs, symptom is gear rattle
 - B. Warping due to excessive heat, symptom is vibration
 - C. Breakage of the damper springs, symptom is noise
 - D. Failure of the friction material, symptom is slipping clutch

3. What is the function of the clutch cover (hat) in a clutch system?
 - A. To absorb engine torque peaks
 - B. To transmit torque from the flywheel to the pressure ring
 - C. To engage and disengage the clutch disc
 - D. To provide a heat sink for the clutch system

4. What role do release levers play in a clutch system?
 - A. They help in changing gears
 - B. They connect the clutch pedal to the clutch disc
 - C. They compress springs and pull the pressure ring away from the disc
 - D. They absorb engine vibrations

5. What is the main advantage of using double disc clutches?
 - A. Reduced clutch pedal effort
 - B. Increased clutch torque capacity
 - C. Enhanced heat dissipation
 - D. Smoother gear shifts

6. Describe the function of a hydraulic clutch system.
 - A. It uses fluid pressure to engage and disengage the clutch
 - B. It mechanically links the clutch pedal to the clutch assembly
 - C. It electrically controls the clutch engagement
 - D. It uses air pressure for clutch operation

7. What is the purpose of the Marcel spring in a clutch disc?
 - A. To increase the friction surface area
 - B. To transmit engine torque
 - C. To cushion the clutch engagement
 - D. To cool the clutch disc

8. How does the clutch disc hub contribute to the clutch system?

- A. It acts as a primary flywheel
- B. It slides on the transmission input shaft
- C. It holds the clutch disc in place
- D. It absorbs engine vibrations

9. What is the effect of heat on nonmetallic clutch facings?

- A. Increases the coefficient of friction
- B. Enhances the wear resistance
- C. Reduces the capacity to transmit torque
- D. Improves the binding strength

10. What is the role of the pilot bearing in a clutch system?

- A. To support the front of the transmission input shaft
- B. To connect the clutch disc to the flywheel
- C. To absorb heat generated during clutch operation
- D. To engage and disengage the clutch

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Answer Key

1. D

2. D

3. B

4. C

5. B

6. A

7. C

8. B

9. C

10. A